05-GF-113
(3930)

MUNICIPALLY OWNED AND OPERATED

Mount Horeb Electric, Water and Sewer Utility

138 EAST MAIN STREET / MOUNT HOREB, WISCONSIN 53572 / (608) 437-3084

January 8, 2003

Mr. Jim Loock, Chief Electric Engineer
Public Service Commission
610 N. Whitney Way
P.O. Box 7854
Madison, WI 53707-7854

RE: In the Matter of Filing Reporting Requirements for Appropriate Inspection and Maintenance, PSC Rule 113.0607(6)

Dear Mr. Loock:

Enclosed for filing are 3 copies of MT. Horeb's report to the commission, submitted every two years, showing compliance with its Preventative Maintenance Plan.

Very truly yours,

David Herfel
Superintendent

Enclosures

TWO YEAR REPORT DOCUMENTING COMPLIANCE WITH THE PREVENTATIVE MAINTENANCE PLAN

Mt. Horeb Water & Light Utility

FILING DEADLINE
FEBRUARY 1, 2003

January 8, 2003

David Herfel

138 East Main St.

Mt. Horeb, Wisconsin 53572

608-437-3300

mhwldh@mhtc.net

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This report format was prepared by the MEUW work group for PSC Rule 113.0607 for use by the 82 municipal electric utilities in Wisconsin and endorsed by PSC staff as meeting the requirements of Rule PSC 113.0607.

I Reporting Requirements: PSC 113.0607(6) states;

Each utility shall provide a periodic report to the commission showing compliance with its Preventative Maintenance Plan. The report shall include a list of inspected circuits and facilities, the condition of facilities according to established rating criteria, schedules established and success at meeting the established schedules.

II Inspection Schedule and Methods:

SCHEDULE:	MONTHLY	ANNUAL	4-YEARS	EVERY
Transmission (□69Kv)			No Transmission	
Substations		X	X	
Distribution (OH & UG)				X

METHODS: Five criteria groups will be used to complete the inspection of all facilities.

1. IR – infrared thermography used to find poor electrical connections and/or oil flow problems in equipment.
2. RFI - Radio Frequency Interference, a byproduct of loose hardware and connections, is checked using an AM radio receiver.
3. SI – structural integrity of all supporting hardware including poles, crossarms, insulators, structures, bases, foundations, buildings, etc.
4. Clearance – refers to proper spacing of conductors from other objects, trees and conductors.
5. EC – equipment condition on non-structural components such as circuit breakers, transformers, regulators, reclosers, relays, batteries, capacitors, etc.

Distribution facilities will be inspected by substation circuits on a 4 year cycle such that the entire system will be inspected every 4 years. Inspector instructions for inspecting all facilities and forms are included in the plan.

III Condition Rating Criteria

This criterion, as listed below, establishes the condition of a facility and also determines the repair schedule to correct deficiencies .

0) Good condition
1) Good condition but aging
2) Non-critical maintenance required – normally repair within 12 months
3) Priority maintenance required – normally repair within 90 days
4) Urgent maintenance required – report immediately to the utility and repair normally within 1 week

IV Corrective Action Schedule

The rating criteria as listed above determine the corrective action schedule.

V Record Keeping

All inspection forms and records will be retained for a minimum of 10 years. The inspection form contains all of the required critical information i.e. inspection dates, condition rating, schedule for repair and date of repair completion.

VI Reporting Requirements

A report and summary of this plan's progress will be submitted every two years with the first report due to the Commission by February 1, 2003. The report will consist of a cover letter documenting the percent of inspections achieved compared to the schedule and the percent of maintenance achieved within the scheduled time allowance.

VII Inspected Circuits and Facilities

Circuit # and description	Substation
78 North, Southwest, Tyrol, Blue M.	**E. Lincoln Sub**
PEC, Simon	**Joint Sub, S. Eighth**

Base load and peaking generation, less than 50 megawatts per unit in size, is typically subject to pre-operational checks, in addition to checks and maintenance during and after periods of operation. Emergency generation is test run and maintained every (NONE) to confirm its operational readiness.

VIII Scheduling Goals Established and Success of Meeting the Criteria:

Mt. Horeb Electric Utility's goals are to complete all monthly substation inspections and record all readings. Also to inspect 25% of the URD facilities every year, and inspect 25% of the overhead distribution system. Too complete all maintenance resulting from those inspections. The Utility has met our goals and plan on continuing a four- year cycle. We feel the preventative maintenance plan has been a benefit to the utility.

IX Facility condition – rating criteria:

The Mt. Horeb Utility has been inspecting our overhead and underground facilities for four years now during that time we have found number of elbow arrestors heating up, connectors heating up and number of crack insulators. Also it has help with pole replacement. All of the distribution system has been inspected and all substation inspections have been completed on time. Of the items found requiring maintenance, all were repaired before they were responsible for an outage to customers. Storm related outages have been minimal. Most of the system is in excellent condition, we do have some underground facilities that is reaching forty years old that we have been replacing.